

# ROTEM guided massive transfusion in rural setting

## Mackay Base Hospital, Queensland

**Problem:** From a patient outcome, product conservation and cost point of view it was ideal to have a more targeted guide for massive transfusion particularly in severe trauma patients.

**Solution:** New MTP protocol launched in September 2016 with ROTEM guidance – early fibrinogen replacement and no FFP unless indicated by ROTEM

- ROTEM purchased to Mackay – located in pathology
- New MTP launched with hospital wide education sessions and targeted simulations with ED, OT and ICU
- ICU taking the lead in trauma MTP and interpretation of ROTEM
- Auditing and feedback, biannual update on results (Grad Rounds)

### Results:

- ROTEM gives rapid (10min) goals for coagulation correction -> bleeding controlled faster, overall product use reduced, patient LOS reduced
- FFP use reduced to nearly zero
- Cost saving – 5000\$/month



